

RF INTERCONNECT SOLUTIONS FOR

MILITARY & DEFENSE

Amphenol RF's broad interconnect portfolio includes a wide variety of ruggedized and high-frequency products that deliver mission-critical solutions for military and defense applications. Our expertise in engineering harsh environment RF interconnect, combined with industry-leading manufacturing practices, ensure superior performance and reliability when it matters most. Waterproof IP-rated configurations are available and ideal for ruggedized communication systems, unmanned vehicles, missile systems and radar technology.



TECHNOLOGIES

- Military Vision System
- Military Satellite Navigation Technology
- Advanced Defense Equipment
- Robotics & Autonomous Systems
- Secure Private Communication Networks

CORE COMPETENCIES

- Waterproof IP67/68 sealed solutions ideal for harsh environments
- Ruggedized products offering dust, vibration, and corrosion resistance
- Custom cable assemblies and sub-systems
- Customized high-speed board level interconnects

PRODUCTS



BNC



HD-BNC



MCX



N-TYPE



SMA & RP-SMA



SMP



TNC & RP-TNC

ALSO AVAILABLE



Amphenol Ruggedized Products (ARC)

The ARC series is designed to offer more ruggedized connectors, adapters and cable assembly options in various durable interfaces that are ideal for applications that may experience harsh external conditions such as military and defense technologies.



QPL Military Approved

High-performance connector series engineered to meet specific standards of quality for military and defense use. These RF interconnect products have been pre-tested and proven to follow required specifications before procurement.



Fixed Length Cable Assemblies

Pre-configured cable assemblies featuring common connector and cable configurations available in standard lengths.



Adapters

Designed for applications requiring two RF interfaces (between-series or in-series) to be connected together.



Black Plated Interconnect

Ideal for covert applications, these connectors and adapters are designed using black chromate plating over nickel to create a non-reflective solution. These interconnect are conductive and corrosion resistant, which makes them suitable for harsh environments. Waterproof IP67 options are available.



Extreme Exposure Interconnect

Corrosive resistant plating is available on select RF products to prolong the life of your system in situations where connectors and adapters may be exposed to chemicals, fertilizer or salt spray. These interconnect are validated for up to 720 hours of salt spray endurance and offer superior RF performance.

Military & Defense Applications

SERIES	IMPEDANCE	APPLICATIONS						
		UNMANNED AERIAL SYSTEMS (UAS)	TACTICAL RADIO PROGRAMS	MILITARY COMMUNICATION SYSTEMS	ELECTRONIC WARFARE SYSTEMS	MISSILES	COUNTER DRONE DEFENSE SYSTEMS	MILITARY ROBOTICS
2.92 mm	50 Ohm		•	•	•		•	
AUTOMATE Mini-FAKRA	50 Ohm				•		•	•
BNC	50 & 75 Ohm	•	•	•	•	•	•	•
FAKRA	50 Ohm	•	•	•	•	•	•	•
HD-BNC	50 & 75 Ohm	•	•	•				•
HD-EFI	50 Ohm			•	•	•	•	
MCX	50 & 75 Ohm		•	•	•	•	•	
MMCX	50 Ohm			•	•	•	•	
N-Type	50 Ohm	•	•	•	•	•	•	
SMA	50 Ohm	•	•	•	•	•	•	•
SMB	50 & 75 Ohm		•	•				
SMP	50 Ohm			•	•	•		
SMPM	50 Ohm			•	•	•		
TNC	50 Ohm	•	•	•	•	•	•	•
IP67 External Antennas	50 Ohm	•	•	•	•		•	•

Design Features



IP-Rated Waterproof Options Available

Waterproof sealed solutions are engineered to protect your application from outside elements and are fully tested to IP67 specifications in the mated and unmated condition.



Vibration-Resistant Designs

One-piece bodies and other design considerations are taken into account to provide a more robust option for applications where there are concerns for the security of the locking interface due to external conditions.